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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-05-09 **Date:** 08/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road (At Basavaraj Pravision Store) in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-12-05-09 /07

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	08/10/2018	149.49 X	22721	8.136	412.9	18.2	18.4
					151.99 X					
					150.15					
2	Drain Concrete	M20	01/10/2018	08/10/2018	150.57 X	22447	8.334	410.0	18.3	
					149.08 X					
					150.33					
3	Drain Concrete	M20	01/10/2018	08/10/2018	149.73 X	22408	8.367	420.1	18.7	
					149.65 X					
					150.52					

Note:

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All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

Signature
M-10-09

Signature
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN

Authorized Signatory

Quality Manager



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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-05-09 **Date:** 29/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidyaranyapura)Vidyaranyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-12-05-09 /08

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

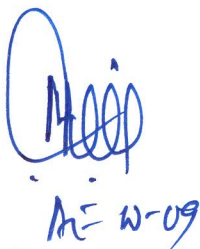
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

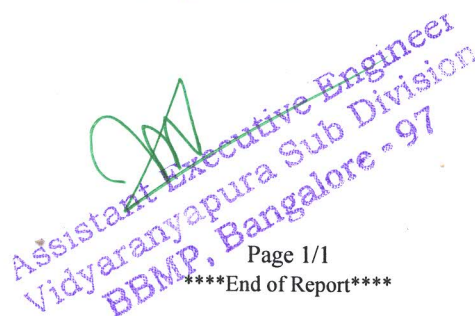
Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	29/10/2018	149.64 X	22339	8.916	524.7	23.5	23.4
					149.28 X					
					149.13					
2	Drain Concrete	M20	01/10/2018	29/10/2018	150.46 X	22806	8.373	520.9	22.8	
					151.58 X					
					150.07					
3	Drain Concrete	M20	01/10/2018	29/10/2018	150.40 X	22689	8.817	542.9	23.9	
					150.86 X					
					149.40					

Note:

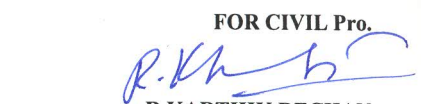
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Authorized Signatory
Quality Manager





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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-05-09 **Date:** 08/10/2018

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidyanarayapura)Vidyanarayapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-12-05-09 /09

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	08/10/2018	150.94 X	22680	8.593	408.9	18.0	18.4
					150.26 X					
					151.70					
2	Drain Concrete	M20	01/10/2018	08/10/2018	149.27 X	22324	8.466	408.4	18.3	
					149.55 X					
					150.03					
3	Drain Concrete	M20	01/10/2018	08/10/2018	150.24 X	22406	8.116	424.1	18.9	
					149.14 X					
					150.57					

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 Vidyanarayapura Sub Division
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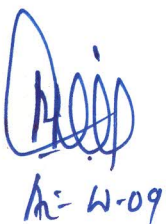
TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-05-09 **Date:** 29/10/2018
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidyaranyapura)Vidyaranyapura Sub Division
Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/124/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-10-18
Sample ID No : 2018-12-05-09 /10
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	29/10/2018	151.45 X	22895	8.995	538.5	23.5	23.0
					151.17 X					
					151.42					
2	Drain Concrete	M20	01/10/2018	29/10/2018	149.92 X	22738	8.680	504.4	22.2	
					151.67 X					
					149.28					
3	Drain Concrete	M20	01/10/2018	29/10/2018	150.69 X	22775	8.560	528.0	23.2	
					151.14 X					
					149.63					

Note:

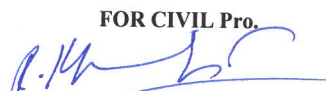
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29-10-18

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 Vidyaranyapura Sub Division
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 Quality Manager

**TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS**

Lab ID : CP-2018-12-05-09 Date: 29-09-18
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Drains At Jai Hanuman Layout Main Road (At Basavaraj Pravision Store) in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division
Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/124/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-09-18
Sample ID No : 2018-12-05-09 /07
Sample Type/Size : Solid concrete blocks size (400X150X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005 (RA 2010) Concrete Masonry Specification
Part 1: Hollow and Solid Concrete Blocks (Dimensions - Annex-B, Clause 9.2 and 10, Block density Annex - C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 26-09-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg. Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	400	151	202	12201	34.240	2806.4	2818.4	Not less than 1800Kg/m ³
2	401	153	201	12332	34.520	2799.2		
3	400	152	200	12160	34.650	2849.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.750	34.060	4.96	5.09	Shall not be more than 10% by mass
2	36.360	34.530	5.30		
3	36.380	34.640	5.02		

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

R. Kh. S.





Lab ID : CP-2018-12-05-09

Date: 29-09-18

Sample ID No : 2018-12-05-09 /07

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	151	201	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	401	153	202	
3	400	152	200	
4	402	152	201	
5	401	151	202	
6	400	153	200	
7	401	150	201	
8	402	150	202	
9	400	151	200	
10	401	152	201	
11	401	153	201	
12	401	150	200	
13	402	150	202	
14	401	152	203	
15	401	151	203	
16	402	153	201	
17	400	152	202	
18	403	151	201	
19	401	151	203	
20	401	151	201	
Average of 20	401	151	201	

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AE-12-09


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Vidyanarayana Sub Division
BBMP, Bangalore - 97






Lab ID : CP-2018-12-05-09
Sample ID No : 2018-12-05-09 /07

Date: 29-09-18

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	401	151	60551	325.62	5.4	5.5
2	401	153	61353	336.83	5.5	
3	400	152	60800	354.36	5.8	
4	402	152	61104	321.36	5.3	
5	401	151	60551	342.23	5.7	
6	400	153	61200	326.48	5.3	
7	401	150	60150	326.62	5.4	
8	402	150	60300	321.21	5.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-12-05-09 Date: 29-09-18
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Drains At Jai Hanuman Layout Main Road (At Basavaraj Pravision Store) in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division
Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/124/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-09-18
Sample ID No : 2018-12-05-09 /01
Sample Type : Birla Super 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1, 2, 3, 4, 5, 6, 11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 26-09-18
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	—
2	Fineness by Air permeability method (m ² /kg, Min)	255.5	225 m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-12-05-09 Date: 24-10-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidyaranyapura)Vidyaranyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-18

Sample ID No : 2018-12-05-09 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

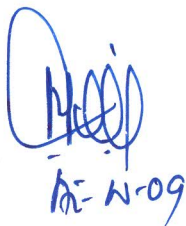
Date of test : 26-09-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-12-05-09 **Date:** 29-09-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 24-09-18

Sample ID No : 2018-12-05-09 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 25-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**Total weight taken** : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

Signature: [Signature]
Date: 29-09-18

Page 1/2
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-12-05-09

Date: 29-09-18

Sample ID No : 2018-12-05-09 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	—
4	Bulk Density(Loose) (Kg/l)	1.57	—
5	Bulk Density(Compacted) (Kg/l)	1.56	—
6	Water Absorption(%)	0.23	—

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**R KARTHIK RECHAN**

Authorized Signatory

Quality Manager



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29-09-18
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-12-05-09 **Date:** 27-09-18
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Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward
Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer Reference : BBMP/EE/BTP/WO/124/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-09-18
Sample ID No : 2018-12-05-09 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 25-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	-

Signature
27-09-18

Page 1/2
Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-12-05-09

Date: 27-09-18

Sample ID No : 2018-12-05-09 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.59	—
6	Water Absorption(%)	0.24	—
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R-21-09
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-12-05-09 Date: 27-09-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidyaranyapura)Vidyaranyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-18

Sample ID No : 2018-12-05-09 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 25-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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25-9-18

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-12-05-09

Date: 27-09-18

Sample ID No : 2018-12-05-09 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.83	—
2	Specific Gravity	2.56	—
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager



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TEST RESULTS OF STEEL

Lab ID : CP-2018-12-05-09 **Date:** 27-09-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidyaranyapura)Vidyaranyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-18

Sample ID No : 2018-12-05-09 /04

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 26-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.394	514	622	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	526	636	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	547	671	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-12-05-09 **Date:** 29-09-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidyaranyapura)Vidyaranyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-18

Sample ID No : 2018-12-05-09 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 26/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.48	100.02	1.388	4474	73.4	16.4	15.3	19.1
2	Cover Slab-2	75.49	100.04	1.379	4475	75.6	16.9	15.7	19.6
3	Cover Slab-3	75.46	100.02	1.385	4471	77.8	17.4	16.2	20.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2018-12-05-09 Date: 29-09-18
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Drains At Jai Hanuman Layout Main Road (At Basavaraj Pravision Store) in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division
Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/124/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-09-18
Sample ID No : 2018-12-05-09 /04
Sample Type /Size : CC Kerb Stone/ 450*165*400mm
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 26/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	A	100.03	165.49	2.872	7857	142.2	18.1	18.1	22.6
2	B	100.01	165.52	2.765	7854	145.3	18.5	18.5	23.1
3	C	100.01	165.48	2.832	7854	145.4	18.5	18.5	23.1

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-05-09 Date: 08/10/2018

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road (At Basavaraj Pravision Store) in Ward No.09 (Vidyananyapura) Vidyananyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-12-05-09 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	08/10/2018	150.96 X	22719	8.570	425.2	18.7	18.5
					150.50 X					
					150.91					
2	Drain Concrete	M20	01/10/2018	08/10/2018	150.60 X	22655	8.230	414.4	18.3	
					150.43 X					
					151.76					
3	Drain Concrete	M20	01/10/2018	08/10/2018	151.23 X	22947	8.364	426.3	18.6	
					151.74 X					
					151.58					

Note:

The results pertain to the samples received and tested.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/10/2018

Lab ID : CP-2018-12-05-09

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road (At Basavaraj Pravision Store) in Ward No.09 (Vidyananyapura) Vidyananyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-12-05-09 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/10/2018					Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	29/10/2018	151.48 X	22816	8.688	526.1	23.1	22.7
					150.62 X					
					151.61					
2	Drain Concrete	M20	01/10/2018	29/10/2018	149.55 X	22664	8.592	499.2	22.0	
					151.55 X					
					151.34					
3	Drain Concrete	M20	01/10/2018	29/10/2018	149.06 X	22319	8.929	516.8	23.2	
					149.74 X					
					150.95					

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-05-09 Date: 08/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidyaranyapura)Vidyaranyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-12-05-09 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	08/10/2018	150.10 X	22516	8.901	411.2	18.3	18.5
					150.01 X					
					149.98					
2	Drain Concrete	M20	01/10/2018	08/10/2018	151.18 X	22925	8.439	425.3	18.6	
					151.63 X					
					150.25					
3	Drain Concrete	M20	01/10/2018	08/10/2018	151.24 X	22812	8.220	425.8	18.7	
					150.83 X					
					151.38					

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-05-09 **Date:** 29/10/2018
Customer : Assistant Executive Engineer, Vidharanyapura Sub Division, BBMP, Bangalore.
Address : Vidharanyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidharanyapura)Vidharanyapura Sub Division
Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/124/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-10-18
Sample ID No : 2018-12-05-09 /04
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	29/10/2018	149.43 X	22639	8.600	528.3	23.3	23.3
					151.50 X					
					149.37					
2	Drain Concrete	M20	01/10/2018	29/10/2018	149.39 X	22432	8.866	511.6	22.8	
					150.16 X					
					149.60					
3	Drain Concrete	M20	01/10/2018	29/10/2018	149.10 X	22532	8.245	536.4	23.8	
					151.12 X					
					150.49					

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-05-09 Date: 08/10/2018

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains At Jai Hanuman Layout Main Road (At Basavaraj Pravision Store) in Ward No.09 (Vidyananyapura) Vidyananyapura Sub Division

Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/124/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-12-05-09 /05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	08/10/2018	149.57 X	22288	8.466	421.0	18.9	18.7
					149.01 X					
					149.02					
2	Drain Concrete	M20	01/10/2018	08/10/2018	149.36 X	22479	8.805	408.8	18.2	
					150.50 X					
					151.46					
3	Drain Concrete	M20	01/10/2018	08/10/2018	150.36 X	22444	8.962	424.1	18.9	
					149.26 X					
					149.91					

Note:

The results pertain to the samples received and tested.
 All information furnished by Customer/Representative
 Any correction in the report will make this report invalid
 This report without prior written approval should not be reproduced or published in full or part.
 Samples will be disposed after 90 days from the date of issue of test certificate

Signature
 ME-1109

Signature
 Assistant Executive Engineer
 Vidyananyapura Sub Division
 BBMP, Bangalore - 97

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 ****End of Report****



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Signature
 R KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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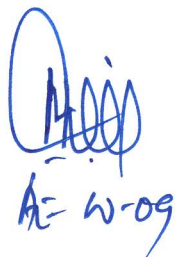
TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-05-09 **Date:** 29/10/2018
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Drains At Jai Hanuman Layout Main Road(At Basavaraj Pravision Store)in Ward No.09(Vidyananyapura)Vidyananyapura Sub Division
Agency : Sri. Sharath S, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/124/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-10-18
Sample ID No : 2018-12-05-09 /06
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	01/10/2018	29/10/2018	149.28 X	22305	8.897	513.8	23.0	23.0
					149.42 X					
					149.01					
2	Drain Concrete	M20	01/10/2018	29/10/2018	149.48 X	22504	8.183	502.6	22.3	
					150.55 X					
					150.05					
3	Drain Concrete	M20	01/10/2018	29/10/2018	149.12 X	22285	8.505	524.9	23.6	
					149.44 X					
					151.53					

Note:

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AE- W-09

Assistant Executive Engineer
 Vidyananyapura Sub Division
 BBMP, Bangalore - 97

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 ****End of Report****

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R KARTHIK RECHAN
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 Quality Manager

